

Exercise 1 (a) The function f defined by $f(x) = 12x$ is

Multiple Choice:

- (i) even.
- (ii) odd. ✓
- (iii) neither even nor odd.
- (iv) both even and odd.

(b) The function f defined by $f(x) = 12x + 2$ is

Multiple Choice:

- (i) even.
- (ii) odd.
- (iii) neither even nor odd. ✓
- (iv) both even and odd.

(c) The function f defined by $f(x) = 12$ is

Multiple Choice:

- (i) even. ✓
- (ii) odd.
- (iii) neither even nor odd.
- (iv) both even and odd.

(d) The function f defined by $f(x) = 5x^2 - 4$ is

Multiple Choice:

- (i) even. ✓
- (ii) odd.
- (iii) neither even nor odd.
- (iv) both even and odd.

(e) The function f defined by $f(x) = 3x^3 - 5x$ is

Multiple Choice:

- (i) even.
- (ii) odd. ✓
- (iii) neither even nor odd.

(iv) *both even and odd.*

(f) *The function f defined by $f(x) = 0$ is*

Multiple Choice:

(i) *even.*

(ii) *odd.*

(iii) *neither even nor odd.*

(iv) *both even and odd.* ✓